

REMARKS

A. Request for reconsideration

Applicants have carefully considered the matters raised by the Examiner in the Office Action but remains of the position that patentable subject matter is present. Applicant respectfully requests reconsideration of the Examiner's position based on the Claim Amendments and following remarks.

B. Request for One-month Extension of Time

Applicants respectfully request one month extension of time to answer the outstanding Office Action. The fee is concurrently paid with this online filing.

C. Claim Status and Amendments

Claims 1-22 and 24-25 are presented for further prosecution. Claim 23 has been cancelled and claim 25 has been added. Claims 3-7 and 23 have been deemed allowable if rewritten in independent form. Claims 9-15 have been indicated containing allowable subject matter.

Claims 1-2 have been amended to include further limitation, which is basically the limitation of claim 23.

Support to these amendments can be seen from paragraphs 9-12 of the published application and at figures 8 and 9.

Claim 16 has been amended to further include the limitation of cancelled Claim 23.

Claims 5 and 18 have been amended to eliminate redundant limitations, due to the amendments to the base claims.

Claim 3 has been amended to focus on the limitation of arrangement and Claim 25 has been added to recite the constitution limitation cancelled from the amended claim 3.

In addition, claims 8, 15 and 24 have been amended according to the Examiner's suggestion. Claims 9 and 16 have been further amended on the wordings according to the conventional US practice.

No new matter is added by the amendments.

D. Claim Objections

Claims 8, 15 and 24 had been objected to on formality issues. Claims 8, 15 and 24 have been amended to remove the formal defects.

Claims 18 and 19 had been objected to as conflicting with the base claim. Because of the amendments to Claim 16, the applicants respectfully submit that claims 18 and 19



MFC (2) and passing through the magnetic film cell MFC (2)".

In contrast, Nguyen does not disclose such a feature of providing only one current line parallel to the MFC and branching a part of the current to flow vertically through the MFC. Nguyen is based on spin transfer effect (see the abstract and paragraph 0028-0030), which is the conventional old art different from the present invention. Therefore, Nguyen can not anticipate Claim 16 and its dependent claims 17-22 and 24.

2. Claims 1 is patentable over Li.

Claim 1 as amended includes a distinctive feature, namely: "writing operation of information in a magnetic film cell MFC of the MRAM is implemented by corporate effect of a current parallel to the MFC and vertical to an easy magnetization direction of the MFC and a part of said current being branched vertical to the MFC and passing through the MFC".

This limitation is basically a more specific rephrasing of the limitation of the allowable Claim 23. It is discussed in the paragraph 9-12 in the published

specification. In the present invention, the current parallel to the MFC and the part of said current being branched vertically to the MFC and passing through the MFC are interrelated to generate corporate effect to perform the writing operation.

In contrast, Li only discusses performing writing operation by using magnetic fields generated by three separate currents, such as word line current, sense line current and digital line current. Obviously, Li needs three separate lines to write, which corresponding to the conventional technology the present invention is to improve.

3. Claim 2 and its dependent claim 8 are patentable over Pakata et al.

Similar to the amendment to Claim 1, Claim 2 has been amended to point out that the writing operation of the information of the magnetic film cell MFC (2) is implemented by corporate effect of a current parallel to the MFC(2) in the bit line BL (3a) and a current branched from the bit line BL (3a) vertical to the MFC and passing through the MFC. Utilizing the corporate effect of magnetic fields generated by the parallel current and the branched



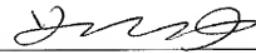
through the MFC reduces the number of lines and number of the metal wiring layers and the contact holes, and greatly reduces the complexity of MRAM's structure, and difficulty and cost of manufacturing the same. This feature distinguishes the present invention from cited references and the invention as claimed is patentable over the cited references taken alone or in combination.

F. Conclusion

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance and such action is respectfully requested. Should any further fees or extensions of time be necessary in order to maintain this Application in pending condition, appropriate requests are hereby made and authorization is given to debit Account # 02-2275.

Respectfully submitted,

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